

# P Advanced Energy Products Corp.

18th NREL Industry Growth Forum November 8, 2005

# Growth Opportunity Energy Efficient Cooling & Heating Products





## Merger

#### **Advanced Energy Products**

- Commercializing new energy efficient HVAC
- > Strong pipeline of proprietary products
- > Connections
  - ➤ Green market
  - ➤ DOE & California Energy Commission
  - > Utility & other energy efficiency (EE) programs
  - > LEED for Homes





## Merger

#### **Des Champs Technologies**

Established commercial HVAC company

<u>2005</u> <u>2006</u>

Revenue: \$29M \$33M

EBITDA: \$1.2M \$3.2M

- Engineered & modular high efficiency products
- Leader in dry climate cooling technology
- ➤ Benefits from new products & cash infusion





## **Combined Company**

- Core Competency: Develop & Commercialize Energy Saving Cooling, Heating & IAQ Products
  - ➤ Value-Add: Proprietary High Efficiency Heat Exchangers
- The grEEn<sup>TM</sup> HVAC supplier
- > Revenue growth \$30M (2005) to \$150M (2010)





# **Current Commercial Product Lines**

#### **Energy Recovery Ventilators**

- > Transfer heat & cooling from exhaust air to ventilation air
- ➤ 85% energy recovery

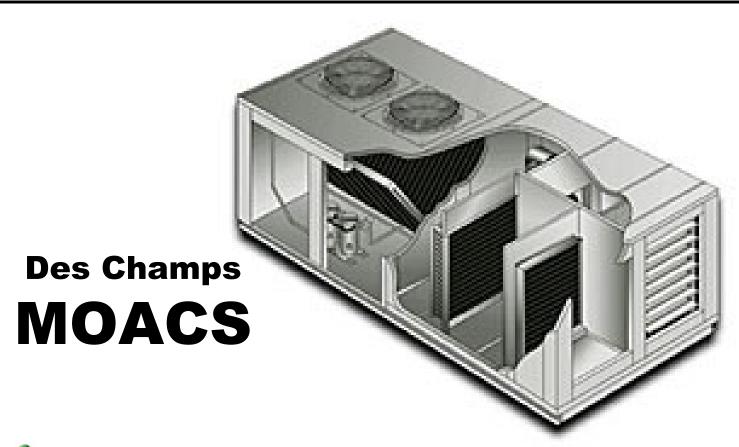
### **Indoor Air Quality Products**

- ➤ Dehumidify & condition ventilation air
- ➤ Improve IAQ
- > 75% current revenue
- Fastest growing HVAC segment





# **Modular Outside Air** A P Conditioning Systems (MOACS)

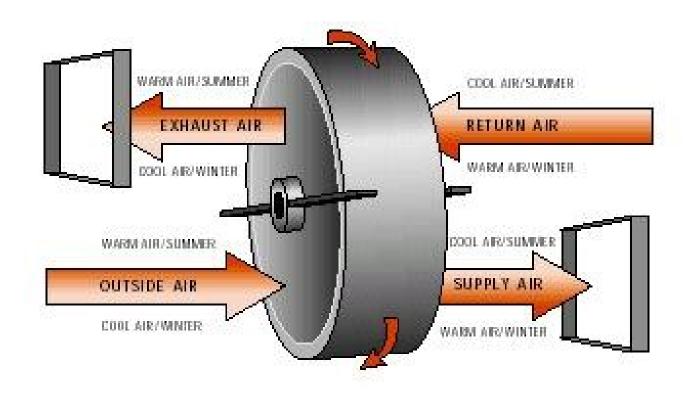






#### **Des Champs**

## Rotary Heat Exchanger







# **Existing Commercial Product Lines**

#### Heat Exchangers - OEM, Commercial & Industrial

- > Rotary heat exchangers
- > Heat pipes
- Plate heat exchangers

#### **Electronic Cooling Products**

#### PROPRIETARY TECHNOLOGY





#### **New Product Lines**

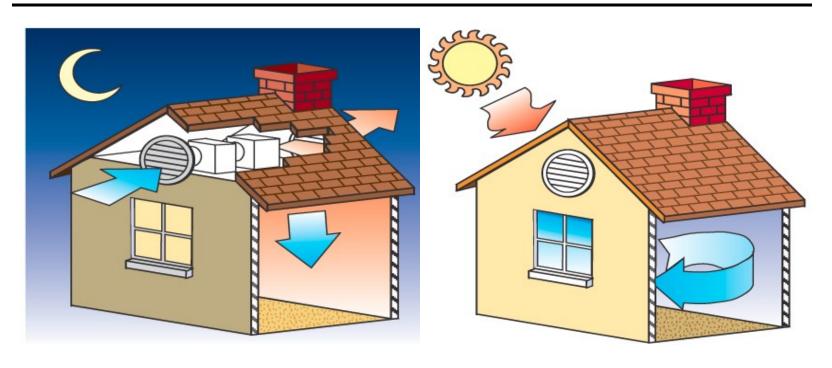
#### Residential Ventilation - Residential/Small Commercial

- Automatically ventilates with filtered outdoor air
- > Pre-cools with night air
- ➤ Better IAQ and up to 60% energy savings
- > \$2,850/unit, \$750/unit incentive
- > Starbucks demonstration





## **NightBreeze**



60% Energy Savings • 15 Pre-production units in place • Monitoring 4 units for DOE & SCE





# NightBreeze Features & Benefits

- > Automatic
- > Safe no open windows
- Quiet no street noise
- Comfortable: no over-cooling
- > Filtered air
- > Cost Effective





#### **New Product Lines**

- Solar Water Heaters Residential
  - Low cost domestic hot water
  - > Cut hot water heater energy use in half
- Rooftop Units Commercial
  - > 10 to 30 tons





## HyPak High Efficiency Packaged RTU

- 50% Energy Savings
- To 100% Outdoor Air
- Monitoring prototype for SMUD





## Competition

#### **Engineered Systems**

- > Venmar Ventilation, Inc.
- > Engineered Air

## Major HVAC Companies

- > AAON Inc.
- McQuay International Inc.
- York International Corp.

#### Competitive Advantages

- > Value
- > Reputation engineered products

> Annex air

- Carrier Corp.
- The Trane Co.

> R&D and IP





#### **Product Benefits**

- Improved IAQ
- > Points for LEED green building certification
- Utility incentives
- Energy savings of 30% to 80%
- > Fast paybacks
- > AEP products are DIFFERENTIATORS





#### **Market Drivers**

- Indoor air quality (IAQ)
- > Peak demand
- Rising energy costs
- > Increasing energy efficiency incentives
- Green Building





### **Distribution Channels**

#### Commercial & Industrial

> 100 independent rep firms in North America

#### **Residential**

- > Action Sales
  - Leading rep for innovative residential products
  - Track record for building markets

## California Marketing Office Planned

- > Develop green market & utility connections
- ➤ Incentive & demonstrating programs





## Manufacturing

- ➤ 260,000 s.f. leased production facility in Southwestern VA
- > State-of-the-art equipment
  - > Punch press, laser cutters, CAD-CAM links
  - Fabricate sheet metal cabinets and heat exchangers
  - > Purchase other components





## **Synergies**

- > Increased sales existing products
  - Leverage AEP relationships
    - ➤ Utility & other demonstration programs
    - Green building community
- > Stronger dry climate (Western) presence
- ➤ Positioned in hi margin, fast growth segment of the HVAC industry
- > Fill mutual management needs





## **Synergies**

- > Expanded R&D
  - ➤ Government funding
  - ➤ Davis Energy Group R&D partner
    - ➤ 25 year leader in EE HVAC
- Product Pipeline
  - ➤ 3 new product lines ready for market Near Term
  - ➤ 30% 60% energy savings
- > Rapid Growth





## Senior Management

#### Mark Berman

- > HVAC product development
- > Strategic planning
- Business development
- ➤ MBA, 20 years energy & efficiency

#### **Nick Des Champs**

- ➤ Ph.D. mechanical engineering
- Founded DCT in 1973
- ➤ 16 patents
- ➤ 1997 "Master Entrepreneur of the Year"

#### **Don Driscoll**

- > Treasury finance & IT
- > CFO of DCT since 2003
- ➤ 8 years with DCT





# Financial Projections

	(Millions \$)					
	2005	2006	2007	2008	2009	2010
Revenue						
Current Product	\$29.1	\$32.6	\$36.8	\$42.3	\$48.7	\$ 56.0
New Product	-	.8	4.6	18.1	48.6	100.1
Total	\$29.1	\$33.4	\$41.4	\$60.4	\$97.3	\$156.1
EBITDA						
Current Product	\$ 1.2	\$ 3.2	\$ 3.7	\$ 4.3	\$ 4.9	\$ 5.6
New Product	-	(1.0)	(1.0)	2.8	8.1	20.8
Total	\$ 1.2	\$ 2.2	\$ 2.7	\$ 7.1	\$13.0	\$26.4





## Use of Proceeds

	(Millions)
Sales & Marketing	\$ 1.9
<b>Product Development</b>	\$ 1.9
Tooling & Equipment	\$ 2.2
Working Capital	\$ 1.0
Stock Purchase	\$ 3.0
Total	\$10.0





#### **Investor Benefits**

- Partnership
- > Full participation
  - > Deal structure
  - > Board
  - > Exit strategy
- > Immediate positive cash flow
- > Fast growth
- > Exit @ 6 X to 10 X





### Thank You!

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